

Patent Claims

1. Process automation signal processing unit for mounting on a hat rail,
5 including a housing (3) for receiving a plurality of plug-in cards (5, 6, 7, 8),
e.g. CPU-card, I/O-cards, power supply card, connectable with a display unit
(10) comprised of a frame (11) with display (12), keypad (14) and circuit
board (16), for forming a switchboard installable device, wherein conductive
traces of the circuit board (16) serve for the electric connection of the plug-in
10 cards (5, 6, 7, 8),
characterized in that
the housing (3) is connected to an adaptation module (20), which serves for
securement to a hat rail and which has a circuit board (16A), whose
conductive traces are laid-out correspondingly to the conductive traces of the
15 circuit board (16) of the display unit (10).
2. Signal processing unit as claimed in claim 1, characterized in that, on
the circuit boards (16, 16A), card edge connectors (25, 26, 27, 28; 25A, 26A,
27A, 28A) are provided, which are situated for fit with respect to plug-in
20 edges (25B, 26B, 27B, 28B), such that, on placement of either the
adaptation module (20) or the display unit (10) onto the housing (3), the
connections between the plug-in cards (5, 6, 7, 8) are produced.
3. Signal processing unit as claimed in one of the preceding claims,
25 characterized in that the circuit board (16A) has no display operating
electronics (40) for the display (12).
4. Signal processing unit as claimed in one of the preceding claims,
characterized in that the adaptation module (20) has two angle sheets (50,
30 51), of which at least one is resiliently mounted to serve for a snap-in
connection with a hat rail.

5. Signal processing unit as claimed in one of the preceding claims, characterized in that the adaptation module (20) comprises steel sheet.